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SAFETY DATA SHEET (SDS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Copper Based Products

Specification: AWS A5.7

Application: Welding and Mechanical Purposes

Product Identifiers: See Section 16 for full list

Supplier Name:HQA Wire ProductsTelephone:1-714-739-9473Emergency Telephone:1-714-739-9473Email:sales@hqawp.comWebsite:www.hqawp.com

SECTION 2 – HAZARDS INDENTIFICATION

These materials are not hazardous as shipped. However, proper bodily protect should be used when handling the material. Gloves and eye protection should be used when welding. Protection includes but is not limited to gloves, face shield, arm protectors, safety glasses, and aprons.

Welding with these materials can create hazards including slash or splatter from molten metal, electric shock, arc flashing, and fumes. Proper protection should be used when welding. See Section 8 for more detailed exposure control and personal protection.

GHS Classification Hazard Statement Codes (1272/2008):

Skin Sens. 1 H317 Carc. 2 H351 STOT RE 1 H372

These alloys can contain nickel. Nickel has been classified as toxic in GHS Classification Regulation No. 1272/2008 through prolonged exposure and inhalation. In addition, nickel has been identified as a skin sensitizer and possible carcinogen by OSHA.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients ⁽¹⁾	Max % ⁽²⁾	REACH Reg. #	CAS#	EINECS #	GHS Classification(3)
Copper (Cu)	Bal.	01-2119480154-42	7440-50-8	231-159-6	Not Hazardous
Nickel (Ni)	6	01-2119438727-29	7440-02-0	231-111-4	H317, H351, H372
Iron (Fe)	6	01-2119462838-24	7439-89-6	231-096-4	Not Hazardous
Silicon (Si)	5	01-2119480401-47	7440-21-3	231-130-8	Not Hazardous
Manganese (Mn)	2	01-2119449803-34	7439-96-5	231-105-1	Not Hazardous
Titanium (Ti)	1.5	01-2119484878-14	7440-32-6	231-142-3	Not Hazardous
Beryllium (Be)	2	01-2119487146-32	7440-41-7	231-150-7	H350, H372
Lead (Sn)	0.1	01-2119513221-59	7439-92-1	231-100-4	H302 + H332, H350, H360, H373, H400, H410

⁽¹⁾ Not all ingredients will be present in every alloy mixture. Please refer to HQA Certifications for specific elements.

⁽²⁾ Max element levels are stated to the best of HQA's knowledge.

⁽³⁾ Regulation (EC) No. 1272/2008 replaced 67/548/EEC as of June 1, 2015 per EU-OSHA website. List of applicable GHS Classification codes can be found in Section 16.



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SECTION 4 - FIST AID MEASURES

Skin Contact: Rinse or flush burns from arc flash with cold water. Seek medical attention if necessary.

Eye Contact: Eye irritations from dust and fumes can be removed by flushing with water for at least 15 minutes. If

irritation persists, seek medical attention.

Ingestion: If material is ingested, seek medical attention immediately.

Inhalation: If breathing becomes difficult, move to an area with fresh air and seek medical attention. If breathing has

stopped, give victim artificial respiration and seek medical assistance immediately.

Most Important symptoms and effect, acute and delayed:

Short-Term Symptoms: Metallic taste; nausea; tightness of chest; fever; irritation of eyes, nose, throat and skin; loss of

consciousness/ death due to welding gasses or lack of oxygen. Aggravation of pre-existing

respiratory or allergic conditions may occur in some users.

Long-Term Symptoms: Adverse effects may result from long-term exposure to welding. Fume, gases, or dusts. These

effects may include skin sensitization, neurological damage and respiratory disease such as bronchial asthma, lung fibrosis or pneumoconiosis. Nickel and chromium must be considered possible carcinogens under OSHA (29CFR1910.1200). The International Agency for Research on Cancer (IARC) has indicated that nickel and certain nickel compounds are probably carcinogenic for humans, but that the specific compounds which may be carcinogenic cannot be specified precisely. This conclusion was based on experience in certain nickel refining operations.

Chromium has also been listed by IARC because of "sufficient evidence for the carcinogenicity of chromium and certain chromium compounds." the studies forming the basis for the conclusion were from operations different from the production or welding of nickel and chromium alloys. Recent epidemiological studies of workers melting and working alloys containing nickel

chromium have found no increased risk of cancer. Nevertheless, exposures must be maintained

below the levels specified in Section 8.

SECTION 5 – FIRE FIGHTING MEASURES

(Non-flammable) Welding arc and sparks can ignite combustibles. Refer to American National Standard Z49.1, Safety in Welding and Cutting, published by the American Welding Society, P.O. Box 351040, Miami, FL 33135, for fire prevention and protection information during the use of welding and allied procedures.

National Fire Protection Association (NFPA) Rating: Health-2 Flammability-0 Reactivity-0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Solid materials can be picked up and placed in original container or, for disposal considerations, please refer to Section 13.

SECTION 7 – HANDLING AND STORAGE

Handling: Handle material with care. Wear gloves and eye protection when handling material.

Storage: Protect material from dust, acid, and other substances that can cause chemical reactions. Store the

material in a dry area on a stable surface.



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SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

Use the below as a guideline for limiting fume exposure:

Ingredients ⁽¹⁾	CAS#	EINECS #	ACGIH TLV (mg/m ³)	OSHA PEL (mg/m ³)
Copper (Cu)	7440-50-8	231-159-6		
Dust			1	1
Fume			0.2	0.1
Iron (Fe) (Iron	7439-89-6	231-096-4	5 (Resp.)	10 (Fume)
Oxide)	7433 03 0	231 030 4	_	
Manganese (Mn) (Fume)	7439-96-5	231-105-1	Not Hazardous	
Inhalable			0.1	5 Ceiling
Respiratory			0.02	5 Ceiling
Molybdenum (Mo)	7439-98-7	231-107-2	_	
Dust				15
Inhalable			10	
Respiratory			3	
Soluble			0.5	5
Nickel (Ni)	7440-02-0	231-111-4	1.5 (Inhalable)	1
Silicon (Si)	7440-21-3	231-130-8		
Dust			Withdrawn	15
Respiratory			Withdrawn	5
Titanium (Ti)	7440-32-6	231-142-3		

Avoid exposure to fumes.

Eye and Face Protection: Wear a helmet or face shield with filter lens of appropriate shade level. More detail can be found

in American National Standard Z49.1 "Safety in Welding and Cutting" and other applicable

regulations.

Protective Clothing: Wear impervious or approved clothing to prevent injury from sparks, debris, or electric shock.

Welding gloves are required to avoid injury. Protection includes but is not limited to gloves, face

shield, arm protectors, safety glasses, hats, and aprons.

Respiratory Protection: Use sufficient levels of ventilation. If welding in a confined area, use a respirator or air-supplied

respirator to avoid exposure to fumes. Keep fumes at a safe level for everyone. More details can be found in ANSI/AWS F1.1 "Method for Sampling Airborne Particle Generated by Welding and

Allied Processes" and AWS F3.2M/F3.2 "Ventilation Guide for Weld Fume."

Hygiene and Cleanliness: Use sufficient hygiene practices. Wash your hands after handle these products. Keep welding

area and clothing clean and dry.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Stainless Steel Welding rods appear light to dark gray or silver. The material is odorless.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: These products are not reactive under normal circumstances.

Chemical Stability: These products are stable when shipped and under normal circumstances.

Conditions to Avoid: Limit exposure to dust, extreme heat, oxidizers, and incompatible materials.

Possibility of Hazardous Reactions: None known.



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Incompatible Materials: Strong acids, strong bases, and oxidizers.

Hazardous Decomposition Products: Fumes generated from welding with included products can vary in degree. Please refer to Section 8, Exposure Control, and OSHA's Permissible Exposure Limit (PEL). Decomposition of elements can include any elements listed in Section 3, Composition/Information on Ingredients.

SECTION 11 – TOXICOLOGICAL INFORMATION

These products are not considered hazardous until consumed through the welding process. Fumes and gases from welding cannot be classified simply. The composition and quantity of both depend on the metal being welded, the process, procedures, and electrodes used. The constituents of the fume are generally different from the ingredients listed in section 3 and may include oxides of the metals, chromates, fluorides, and complex metals. The gases may include carbon monoxide, ozone, and oxides of nitrogen. Chlorinated solvents may be decomposed by the arc into toxic gases such as phosgene. Some elements in welding fumes have been suspected as carcinogens.

Short-Term Symptoms: Metallic taste; nausea; tightness of chest; fever; irritation of eyes, nose, throat and skin; loss of

consciousness/ death due to welding gasses or lack of oxygen. Aggravation of pre-existing

respiratory or allergic conditions may occur in some users.

Long-Term Symptoms: Adverse effects may result from long-term exposure to welding. Fume, gases, or dusts. These

effects may include skin sensitization, neurological damage and respiratory disease such as bronchial asthma, lung fibrosis or pneumoconiosis. Nickel and chromium must be considered possible carcinogens under OSHA (29CFR1910.1200). The International Agency for Research on Cancer (IARC) has indicated that nickel and certain nickel compounds are probably carcinogenic for humans, but that the specific compounds which may be carcinogenic cannot be specified precisely. This conclusion was based on experience in certain nickel refining operations. Chromium has also been listed by IARC because of "sufficient evidence for the carcinogenicity of

chromium and certain chromium compounds." the studies forming the basis for the conclusion were from operations different from the production or welding of nickel and chromium alloys. Recent epidemiological studies of workers melting and working alloys containing nickel chromium have found no increased risk of cancer. Nevertheless, exposures must be maintained

below the levels specified in Section 8.

SECTION 12 - ECOLOGICAL INFORMATION

Avoid contamination of surrounding environment in full compliance to local and national government regulations. Avoid disposal or exposure to groundwater.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of waste materials in the appropriate environmentally acceptable manner and in full compliance to local and national regulations.

SECTION 14 – TRANSPORTATION INFORMATION

These products are not internationally regulated as dangerous goods.

SECTION 15 – REGULATORY INFORMATION

US Regulations:

Section 311 Hazard Class: As shipped – Immediate

In use - Immediate and delayed

Ingredient

EPCRA/SARA Title III 313 Toxic Chemicals: These products contain the following metallic chemicals which are subject to SARA Title III Section 313 Reporting:

Weight Percentage



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1.0% de minimis Copper Manganese 1.0% de minimis Nickel 0.1% de minimis

These elements are based on the chemical composition of all alloys included in this SDS. Please refer to the specific composition included with the purchased certification.

California Proposition 65: This product may expose you to chemicals including Titanium dioxide, Nickel, Lead and Lead Compounds, Beryllium and Beryllium Compounds which are known to the State of California to cause cancer, and Nickel, Lead and Lead Compounds which are known to the State of California to cause birth defects and/or other reproductive harm. For more information go to https://www.p65warnings.ca.gov/

SECTION 16 – OTHER INFORMATION

Alloy Identifiers: Aluminum Bronze, Beryllium Copper, Deoxidized Copper, Phosphorus Bronze, Silicon Bronze, Ampco 940, NA 67, Brass, Nickel Aluminum Bronze, and C110.

GHS Classification Codes: H302 + H332 - Harmful if swallowed or if inhaled

H317 – May cause an allergic skin reaction.

H351 - Suspected of causing cancer

H350 - May cause cancer

H360 - May damage fertility or the unborn child

H372 – Causes damage to organs through prolonged or repeated exposure. H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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